

## Features

- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Have Over Voltage Protect Loop and High Reliability
- Low Voltage Continued Circuit and Protection Circuit
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

# Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance (Per Leg): 3°C/W Junction to Case

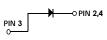
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRD5200	MBRD5200	200V	140V	200V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

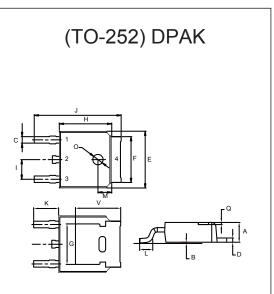
Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% Duty Cycle	I <sub>F(AV)</sub>	5.0A	T <sub>C</sub> =115°C
Peak Forward Surge Current	I <sub>FSM</sub>	130A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	0.81V(Typ) 0.86V 0.68V	I <sub>F</sub> =5.0A; T <sub>J</sub> =25⁰C I <sub>F</sub> =5.0A; T <sub>J</sub> =25⁰C I <sub>F</sub> =5.0A; T <sub>J</sub> =125⁰C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	5µA 1mA	Tյ=25⁰C Tյ=125⁰C

Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

## Internal Structure:



# 5 Amp Schottky Barrier Rectifier 200 Volts



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	nore
Α	0.087	0.094	2.20	2.40	
В	0.000	0.005	0.00	0.13	
С	0.026	0.034	0.66	0.86	
D	0.018	0.023	0.46	0.58	
Е	0.256	0.264	6.50	6.70	
F	0.201	0.215	5.10	5.46	
G	0.1	90	4.	83	TYP.
Н	0.236	0.244	6.00	6.20	
I	0.086	0.094	2.18	2.39	
J	0.386	0.409	9.80	10.40	
Κ	0.1	14	2.9	90	TYP.
L	0.055	0.067	1.40	1.70	
М	0.0	63	1.0	60	TYP.
0	0.043	0.051	1.10	1.30	
Q	0.000	0.012	0.00	0.30	
V	0.2	11	5.3	35	TYP.



# **Curve Characteristics**

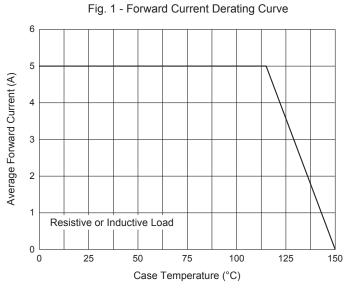
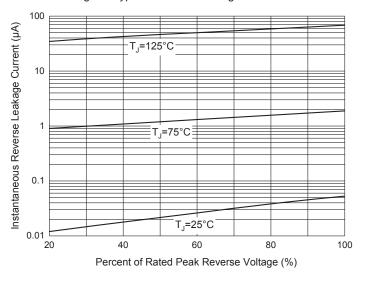
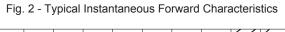
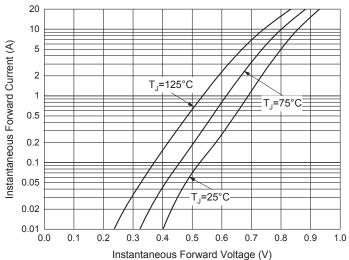


Fig. 3 - Typical Reverse Leakage Characteristics









## **Ordering Information**

Device	Packing		
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel		

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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